

(Use as many sheets as necessary)

Sheet	1	of	3
-------	---	----	---

Application Number	10/681,032
Filing Date	Oct. 7, 2003
First Named Inventor	James C. Weatherall
Art Unit	2859
Examiner Name	Shrivastav, Brij B.
Attorney Docket Number	1640-006

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
B		US- 3,589,177	06/29/1971	Merlo	
		US- 3,722,288	03/27/1973	Weber	
		US- 4,087,798	05/02/1978	Thom et al.	
		US- 4,234,844	11/18/1980	Yukl	
		US- 4,263,511	04/21/1981	Hirschberg	
		US- 4,433,286	02/21/1984	Capots et al.	
		US- 4,493,039	01/08/1985	Gregory	
		US- 4,651,100	03/17/1987	Janes	
		US- 4,652,829	03/24/1987	Safinya	
		US- 4,740,753	04/26/1988	Glover et al.	
		US- 4,881,025	11/14/1989	Gregory	
		US- 4,912,982	04/03/1990	Yukl	
		US- 5,124,662	06/23/1992	Downing et al.	
		US- 5,260,665	11/09/1993	Goldberg et al.	
		US- 5,266,913	11/30/1993	Chapman	
		US- 5,296,810	03/22/1994	Morich	
	US- 5,334,941	08/02/1994	King		
	US- 5,341,100	08/23/1994	Taylor		
B		US- 5,648,038	07/15/1997	Fathi et al.	

[illegible]

Date
Considered

7/11/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIFO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of 3

Complete if Known

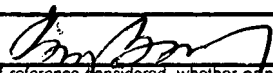
Application Number	10/681,032
Filing Date	Oct. 7, 2003
First Named Inventor	James C. Weatherall
Art Unit	2859
Examiner Name	Shrivastav, Brij B.
Attorney Docket Number	1640-006

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
h		US- 5,689,189	11/18/1997	Morich et al.	
		US- 5,757,187	05/26/1998	Wollin	
		US- 6,049,207	04/11/2000	Petropoulos	
		US- 6,081,118	06/27/2000	Kaplan	
		US- 6,194,898 B1	02/27/2001	Magnuson et al.	
		US- 6,255,816 B1	07/03/2001	Robitaille	
		US- 6,255,824 B1	07/03/2001	Barbara	
		US- 6,375,875 B1	04/23/2002	Paulauskas et al.	
		US- 2002/0005725 A1	01/17/2002	Scott	
		US- 2002/0149377 A1	10/17/2002	Hefti et al.	
2		US- 4,370,611	01/25/1983	Gregory et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

7/11/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance; and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

3

of

3

Complete if Known

Application Number

10/681,032

Filing Date

Oct. 7, 2003

First Named Inventor

James C. Weatherall

Art Unit

2859

Examiner Name

Shrivastav, Bry B.

Attorney Docket Number

1640-006

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
B		NORBERT GENG AND LAWRENCE CARIN, "On the Low Frequency Natural Response of Conducting and Permeable Targets," IEEE Transactions on Geoscience and Remote Sensing, Vol. 37, No. 1, Jan. 1999, pp. 347-359	
B		Brett D. Culbertson et al., "Sensitivity and Optimization of a High-Q Surface Dielectric Motion-Sensor Transducer," IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control, Vol. 45, No. 5, Sept. 1998, pp. 1303-1313	

Examiner
Signature

Date

Considered

7/11/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.